

Please amend the specification as follows:

Page 4, the paragraph at line 32:

The third one of the present invention is a method for preparation of a photo-catalyst represented by $\text{Ti(IV)O}_a\text{N}_b\text{F}_c$ (wherein a, b and c are same as to first one of the present invention) by baking titanium di-ammonium fluoride halide containing at least F represented by $(\text{HH}_4)_2\text{TiF}_d\text{X}_{6-d}$ (wherein, d is integer of 1-6) and ammonium halide by the ratio of equimolar or by the ratio of slightly excess of ammonium halide at the maximum temperature from 200°C to 500°C , desirably from 300°C to 450°C so as to form a starting material, then said starting material is nitrogenated by thermal synthesis in ammonia atmosphere containing from 0.02% to 10.00% of oxygen, air or water to ammonia by reduced mass to oxygen atom at the maximum temperature from 350°C to 700°C , desirably from 400°C to 600°C over than 5 hours.

Page 5, the paragraph at line 7:

The fourth one of the present invention is a method for preparation of a photo-catalyst represented by $\text{SrTi(IV)O}_a\text{N}_b\text{F}_c$ wherein a, b and c are same as to the first one of the present invention by baking titanium di-ammonium fluoride halide containing at least F represented by $\text{TiF}_x\text{X}_{6-x}$ and/or $(\text{HH}_4)_2\text{TiF}_d\text{X}_{6-d}$ (wherein x and d are integer of 1-6) and at least one selected from the group consisting of SrO , SrOH and SrX so as to form a starting material or SrTiF_6 , then said starting material or SrTiF_6 is nitrogenated by thermal synthesis in ammonia atmosphere

containing from 0.02% to 10.00% of oxygen, air or water to ammonia by reduced mass to oxygen atom at the maximum temperature from 350°C to 700°C over than 5 hours.

Page 7, the paragraph at line 23:

The present invention will be illustrated more in detail.

A. The photo-catalysts of the present invention can be obtained by satisfying the essential factors described in the claims.

As the compound having chemical composition of $(\text{HH}_4)_2\text{TiF}_d\text{X}_{6-d}$, (wherein d is integer of 1-6) $(\text{HH}_4)_2\text{TiF}_6$ and $(\text{HH}_4)_2\text{TiF}_2\text{XCl}_4$ can be mentioned as the desirable one.